Joost-pieter Katoen

List of Publications by Year
in descending order

302	6,850	79946	119536
papers	citations	39 h-index	62 g-index

310	310	310	10047
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Storm is Coming: A Modern Probabilistic Model Checker. Lecture Notes in Computer Science, 2017, , 592-600.	1.0	255
2	Process algebra for performance evaluation. Theoretical Computer Science, 2002, 274, 43-87.	0.9	192
3	The ins and outs of the probabilistic model checker MRMC. Performance Evaluation, 2011, 68, 90-104.	1.3	175
4	Safety, Dependability and Performance Analysis of Extended AADL Models. Computer Journal, 2011, 54, 754-775.	2.3	172
5	Approximate Model Checking of Stochastic Hybrid Systems. European Journal of Control, 2010, 16, 624-641.	2.7	141
6	Comparative branching-time semantics for Markov chains. Information and Computation, 2005, 200, 149-214.	0.7	129
7	Approximative Symbolic Model Checking of Continuous-Time Markov Chains. Lecture Notes in Computer Science, 1999, , 146-161.	1.0	113
8	Transcript copy number estimation using a mouse whole-genome oligonucleotide microarray. Genome Biology, 2005, 6, R61.	7.3	110
9	Efficient computation of time-bounded reachability probabilities in uniform continuous-time Markov decision processes. Theoretical Computer Science, 2005, 345, 2-26.	0.9	101
10	A compositional modelling and analysis framework for stochastic hybrid systems. Formal Methods in System Design, 2013, 43, 191-232.	0.8	101
11	The Probabilistic Model Checking Landscape. , 2016, , .		98
12	Model Checking Continuous-Time Markov Chains by Transient Analysis. Lecture Notes in Computer Science, 2000, , 358-372.	1.0	91
13	Counterexample Generation in Probabilistic Model Checking. IEEE Transactions on Software Engineering, 2009, 35, 241-257.	5.9	86
14	PROPhESY: A PRObabilistic ParamEter SYnthesis Tool. Lecture Notes in Computer Science, 2015, , 214-231.	1.0	79
15	Fast Dynamic Fault Tree Analysis by Model Checking Techniques. IEEE Transactions on Industrial Informatics, 2018, 14, 370-379.	12.1	78
16	Bisimulation Minimisation Mostly Speeds Up Probabilistic Model Checking. Lecture Notes in Computer Science, 2007, , 87-101.	1.0	76
17	Discrete-Time Rewards Model-Checked. Lecture Notes in Computer Science, 2004, , 88-104.	1.0	75
18	The probabilistic model checker Storm. International Journal on Software Tools for Technology Transfer, 2022, 24, 589-610.	2.1	73

#	Article	IF	Citations
19	Weakest Precondition Reasoning for Expected Runâ€“Times of Probabilistic Programs. Lecture Notes in Computer Science, 2016, , 364-389.	1.0	69
20	Search for direct pair production of a chargino and a neutralino decaying to the 125ÂGeV Higgs boson in $$sqrt{varvec{s}} = 8$$ s = 8 ÂTeV $$varvec{pp}$$ p p collisions with the ATLAS detector. European Physical Journal C, 2015, 75, 208.	4.0	68
21	Automated compositional Markov chain generation for a plain-old telephone system. Science of Computer Programming, 2000, 36, 97-127.	2.0	67
22	Update of the Binoth Les Houches Accord for a standard interface between Monte Carlo tools and one-loop programs. Computer Physics Communications, 2014, 185, 560-571.	7.8	67
23	Performance evaluation and model checking join forces. Communications of the ACM, 2010, 53, 76-85.	6.5	64
24	On the Logical Characterisation of Performability Properties. Lecture Notes in Computer Science, 2000, , 780-792.	1.0	63
25	The COMPASS Approach: Correctness, Modelling and Performability of Aerospace Systems. Lecture Notes in Computer Science, 2009, , 173-186.	1.0	63
26	A tool for model-checking Markov chains. International Journal on Software Tools for Technology Transfer, 2003, 4, 153-172.	2.1	61
27	Parameter Synthesis for Markov Models: Faster Than Ever. Lecture Notes in Computer Science, 2016, , 50-67.	1.0	61
28	The Ins and Outs of the Probabilistic Model Checker MRMC. , 2009, , .		59
29	libalf: The Automata Learning Framework. Lecture Notes in Computer Science, 2010, , 360-364.	1.0	59
30	Model checking mobile stochastic logic. Theoretical Computer Science, 2007, 382, 42-70.	0.9	58
31	A theory of stochastic systems part I: Stochastic automata. Information and Computation, 2005, 203, 1-38.	0.7	57
32	Reasoning about Recursive Probabilistic Programs. , 2016, , .		57
33	A Markov Chain Model Checker. Lecture Notes in Computer Science, 2000, , 347-362.	1.0	56
34	Three-Valued Abstraction for Continuous-Time Markov Chains. Lecture Notes in Computer Science, 2007, , 311-324.	1.0	56
35	Spacecraft early design validation using formal methods. Reliability Engineering and System Safety, 2014, 132, 20-35.	9.1	54
36	Linear-Invariant Generation for Probabilistic Programs:. Lecture Notes in Computer Science, 2010, , 390-406.	1.0	54

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37	A new proof rule for almost-sure termination. , 2018, 2, 1-28.		53
38	Design and analysis of dynamic leader election protocols in broadcast networks. Distributed Computing, 1996, 9, 157-171.	0.9	52
39	Approximate Parameter Synthesis for Probabilistic Time-Bounded Reachability. , 2008, , .		51
40	Operational versus weakest pre-expectation semantics for the probabilistic guarded command language. Performance Evaluation, 2014, 73, 110-132.	1.3	49
41	A Semantics for Every GSPN. Lecture Notes in Computer Science, 2013, , 90-109.	1.0	48
42	Safety-Constrained Reinforcement Learning for MDPs. Lecture Notes in Computer Science, 2016, , 130-146.	1.0	47
43	Counterexamples in Probabilistic Model Checking. Lecture Notes in Computer Science, 2007, , 72-86.	1.0	46
44	Formal correctness, safety, dependability, and performance analysis of a satellite. , 2012, , .		45
45	Safety analysis for vehicle guidance systems with dynamic fault trees. Reliability Engineering and System Safety, 2019, 186, 37-50.	9.1	43
46	Model-checking large structured Markov chains. The Journal of Logic and Algebraic Programming, 2003, 56, 69-97.	1.7	40
47	Accelerating Parametric Probabilistic Verification. Lecture Notes in Computer Science, 2014, , 404-420.	1.0	40
48	Quantitative Model Checking of Continuous-Time Markov Chains Against Timed Automata Specifications. , 2009, , .		38
49	Cross-training in birds: cold and exercise training produce similar changes in maximal metabolic output, muscle masses and myostatin expression in house sparrows,Passer domesticus. Journal of Experimental Biology, 2015, 218, 2190-200.	1.7	38
50	How Fast and Fat Is Your Probabilistic Model Checker? An Experimental Performance Comparison. Lecture Notes in Computer Science, 2007, , 69-85.	1.0	38
51	A three-dimensional model of the spray forming method. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1998, 29, 699-708.	2.2	37
52	Faster and Symbolic CTMC Model Checking. Lecture Notes in Computer Science, 2001, , 23-38.	1.0	37
53	Quantitative automata-based controller synthesis for non-autonomous stochastic hybrid systems. , 2013, , .		36
54	Sound Value Iteration. Lecture Notes in Computer Science, 2018, , 643-661.	1.0	35

#	Article	IF	Citations
55	Quantitative Timed Analysis of Interactive Markov Chains. Lecture Notes in Computer Science, 2012, , 8-23.	1.0	35
56	A Greedy Approach for the Efficient Repair of Stochastic Models. Lecture Notes in Computer Science, 2015, , 295-309.	1.0	34
57	TOPSISâ€“PSO inspired non-preemptive tasks scheduling algorithm in cloud environment. Cluster Computing, 2019, 22, 1379-1396.	5.2	33
58	Amplitude analysis of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>B</mml:mi><mml:mn>0</mml:mn></mml:msup><mml:mo stretchy="false">â†’</mml:mo><mml:msup><mml:mover accent="true"><mml:mi>D</mml:mi><mml:mo stretchy="false">Â¯</mml:mo></mml:mover><mml:mn>0</mml:mn></mml:msup><mml:msup><mml:mi>K</mml:mi><mml:mo>+</mml:mo></mml:msup></mml:math>Physical Review D, 2015, 92, .	4.8	32
59	Counterexample Generation for Discrete-Time Markov Models: An Introductory Survey. Lecture Notes in Computer Science, 2014, , 65-121.	1.0	32
60	Efficient Modelling and Generation of Markov Automata. Lecture Notes in Computer Science, 2012, , 364-379.	1.0	32
61	On the Hardness of Almostâ€“Sure Termination. Lecture Notes in Computer Science, 2015, , 307-318.	1.0	32
62	Computing Optimal Schedules of Battery Usage in Embedded Systems. IEEE Transactions on Industrial Informatics, 2010, 6, 276-286.	12.1	31
63	Modelling, Reduction and Analysis of Markov Automata. Lecture Notes in Computer Science, 2013, , 55-71.	1.0	31
64	Towards Model Checking Stochastic Process Algebra. Lecture Notes in Computer Science, 2000, , 420-439.	1.0	30
65	Three-valued abstraction for probabilistic systems. The Journal of Logic and Algebraic Programming, 2012, 81, 356-389.	1.7	29
66	Uncovering Dynamic Fault Trees. , 2016, , .		29
67	Efficient GPU algorithms for parallel decomposition of graphs into strongly connected and maximal end components. Formal Methods in System Design, 2016, 48, 274-300.	0.8	29
68	Minimal Critical Subsystems for Discrete-Time Markov Models. Lecture Notes in Computer Science, 2012, , 299-314.	1.0	29
69	On Generative Parallel Composition1 1Supported by the NWO/SION project 612-33-006 and the System Validation Centre/CTIT.. Electronic Notes in Theoretical Computer Science, 1999, 22, 30-54.	0.9	28
70	A theory of Stochastic systems. Part II: Process algebra. Information and Computation, 2005, 203, 39-74.	0.7	28
71	Maximizing system lifetime by battery scheduling. , 2009, , .		28
72	Pressure tuning of charge ordering in iron oxide. Nature Communications, 2018, 9, 4142.	13.2	28

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73	The How and Why of Interactive Markov Chains. Lecture Notes in Computer Science, 2010, , 311-337.	1.0	28
74	Species richness-standing crop relationship in stream bryophyte communities: patterns across multiple scales. Journal of Ecology, 2001, 89, 14-20.	4.1	27
75	MoDeST â€" A Modelling and Description Language for Stochastic Timed Systems. Lecture Notes in Computer Science, 2001, , 87-104.	1.0	27
76	On a Temporal Logic for Object-Based Systems. IFIP Advances in Information and Communication Technology, 2000, , 305-325.	0.0	27
77	On the hardness of analyzing probabilistic programs. Acta Informatica, 2019, 56, 255-285.	0.5	26
78	Quantitative separation logic: a logic for reasoning about probabilistic pointer programs. , 2019, 3, 1-29.		26
79	Quantitative automata model checking of autonomous stochastic hybrid systems. , 2011, , .		25
80	Conditioning in Probabilistic Programming. ACM Transactions on Programming Languages and Systems, 2018, 40, 1-50.	2.2	25
81	A Probabilistic Extension of UML Statecharts. Lecture Notes in Computer Science, 2002, , 355-374.	1.0	25
82	Delayed Nondeterminism in Continuous-Time Markov Decision Processes. Lecture Notes in Computer Science, 2009, , 364-379.	1.0	25
83	Abstract Probabilistic Automata. Lecture Notes in Computer Science, 2011, , 324-339.	1.0	24
84	Synthesis in pMDPs: A Tale of 1001 Parameters. Lecture Notes in Computer Science, 2018, , 160-176.	1.0	24
85	Efficient CTMC Model Checking of Linear Real-Time Objectives. Lecture Notes in Computer Science, 2011, , 128-142.	1.0	24
86	Aiming low is harder: induction for lower bounds in probabilistic program verification. , 2020, 4, 1-28.		24
87	Performability assessment by model checking of Markov reward models. Formal Methods in System Design, 2010, 36, 1-36.	0.8	23
88	Beyond Memoryless Distributions: Model Checking Semi-Markov Chains. Lecture Notes in Computer Science, 2001, , 57-70.	1.0	23
89	Synthesis and Verification of Self-aware Computing Systems. , 2017, , 337-373.		23
90	DTMC Model Checking by SCC Reduction. , 2010, , .		22

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91	Sequential Convex Programming for the Efficient Verification of Parametric MDPs. Lecture Notes in Computer Science, 2017, , 133-150.	1.0	22
92	Causal ambiguity and partial orders in event structures. Lecture Notes in Computer Science, 1997, , 317-331.	1.0	22
93	Minimal counterexamples for linear-time probabilistic verification. Theoretical Computer Science, 2014, 549, 61-100.	0.9	21
94	Parametric Markov chains: PCTL complexity and fraction-free Gaussian elimination. Information and Computation, 2020, 272, 104504.	0.7	21
95	A design model for open distributed processing systems. Computer Networks, 1995, 27, 1263-1285.	1.0	20
96	A QoS-Oriented Extension of UML Statecharts. Lecture Notes in Computer Science, 2003, , 76-91.	1.0	20
97	Prinsysâ€"On a Quest for Probabilistic Loop Invariants. Lecture Notes in Computer Science, 2013, , 193-208.	1.0	20
98	Metric semantics for true concurrent real time. Theoretical Computer Science, 2001, 254, 501-542.	0.9	19
99	Robust PCTL model checking. , 2012, , .		19
100	Innovative Citizenâ€™s Services through Public Cloud in Pakistan: Userâ€™s Privacy Concerns and Impacts on Adoption. Mobile Networks and Applications, 2019, 24, 47-68.	3.4	19
101	Expansion of sweet taste receptor genes in grass carp (Ctenopharyngodon idellus) coincided with vegetarian adaptation. BMC Evolutionary Biology, 2020, 20, 25.	3.1	19
102	General Distributions in Process Algebra. Lecture Notes in Computer Science, 2001, , 375-429.	1.0	19
103	Automated Performance and Dependability Evaluation Using Model Checking. Lecture Notes in Computer Science, 2002, , 261-289.	1.0	19
104	Shepherding Hordes of Markov Chains. Lecture Notes in Computer Science, 2019, , 172-190.	1.0	19
105	Fast Debugging of PRISM Models. Lecture Notes in Computer Science, 2014, , 146-162.	1.0	19
106	Bounded Model Checking for Probabilistic Programs. Lecture Notes in Computer Science, 2016, , 68-85.	1.0	19
107	A Model Checker for AADL. Lecture Notes in Computer Science, 2010, , 562-565.	1.0	19
108	Quantitative model-checking of controlled discrete-time Markov processes. Information and Computation, 2017, 253, 1-35.	0.7	18

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109	Multi-cost Bounded Reachability in MDP. Lecture Notes in Computer Science, 2018, , 320-339.	1.0	18
110	Automated Termination Analysis of Polynomial Probabilistic Programs. Lecture Notes in Computer Science, 2021, , 491-518.	1.0	18
111	Bisimulation and Logical Preservation for Continuous-Time Markov Decision Processes. Lecture Notes in Computer Science, 2007, , 412-427.	1.0	18
112	Hierarchical Counterexamples for Discrete-Time Markov Chains. Lecture Notes in Computer Science, 2011, , 443-452.	1.0	18
113	New Results on Abstract Probabilistic Automata. , 2011, , .		17
114	Foreground-Background Imbalance Problem in Deep Object Detectors: A Review. , 2020, , .		17
115	Markov Automata with Multiple Objectives. Lecture Notes in Computer Science, 2017, , 140-159.	1.0	17
116	Who is Pointing When to Whom?. Lecture Notes in Computer Science, 2004, , 250-262.	1.0	17
117	SMT-Based Bisimulation Minimisation of Markov Models. Lecture Notes in Computer Science, 2013, , 28-47.	1.0	17
118	Learning Communicating Automata from MSCs. IEEE Transactions on Software Engineering, 2010, 36, 390-408.	5.9	16
119	Abstract Probabilistic Automata. Information and Computation, 2013, 232, 66-116.	0.7	16
120	Symbolic counterexample generation for large discrete-time Markov chains. Science of Computer Programming, 2014, 91, 90-114.	2.0	16
121	Greenhouse gas emissions from boreal inland waters unchanged after forest harvesting. Biogeosciences, 2018, 15, 5575-5594.	3.4	16
122	Counterexample-Driven Synthesis for Probabilistic Program Sketches. Lecture Notes in Computer Science, 2019, , 101-120.	1.0	16
123	High-Level Counterexamples for Probabilistic Automata. Lecture Notes in Computer Science, 2013, , 39-54.	1.0	16
124	Using <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Z</mml:mi></mml:math> Boson Events to Study Parton-Medium Interactions in Pb-Pb Collisions. Physical Review Letters, 2022, 128, 122301.	8.0	16
125	Probabilistic weak simulation is decidable in polynomial time. Information Processing Letters, 2004, 89, 123-130.	0.6	15
126	Regular Expressions for PCTL Counterexamples. , 2008, , .		15

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127	Verification of Indefinite-Horizon POMDPs. Lecture Notes in Computer Science, 2020, , 288-304.	1.0	15
128	Replaying Play In and Play Out: Synthesis of Design Models from Scenarios by Learning. Lecture Notes in Computer Science, 2007, , 435-450.	1.0	15
129	Model checking meets performance evaluation. Performance Evaluation Review, 2005, 32, 10-15.	0.8	15
130	A Consistent Causality-Based View on a Timed Process Algebra Including Urgent Interactions. Formal Methods in System Design, 1998, 12, 189-216.	0.8	14
131	A weakest pre-expectation semantics for mixed-sign expectations. , 2017, , .		14
132	Simple Strategies in Multi-Objective MDPs. Lecture Notes in Computer Science, 2020, , 346-364.	1.0	14
133	Interpretation-Based Violation Witness Validation for C: NITWIT. Lecture Notes in Computer Science, 2020, , 40-57.	1.0	14
134	Providing Evidence of Likely Being on Time: Counterexample Generation for CTMC Model Checking. Lecture Notes in Computer Science, 2007, , 331-346.	1.0	14
135	High-pressure forms of lithium sulphate: Structural determination and computer simulation. Physical Review B, 2005, 72, .	3.3	13
136	Understanding Probabilistic Programs. Lecture Notes in Computer Science, 2015, , 15-32.	1.0	13
137	Advancing Dynamic Fault Tree Analysis - GetÂSuccinct State Spaces Fast and Synthesise Failure Rates. Lecture Notes in Computer Science, 2016, , 253-265.	1.0	13
138	Motion planning under partial observability using game-based abstraction. , 2017, , .		13
139	How long, O Bayesian network, will I sample thee?. Lecture Notes in Computer Science, 2018, , 186-213.	1.0	13
140	A pre-expectation calculus for probabilistic sensitivity. , 2021, 5, 1-28.		13
141	Relatively complete verification of probabilistic programs: an expressive language for expectation-based reasoning. , 2021, 5, 1-30.		13
142	Latticed k-Induction with an Application to Probabilistic Programs. Lecture Notes in Computer Science, 2021, , 524-549.	1.0	13
143	GPU-Based Graph Decomposition into Strongly Connected and Maximal End Components. Lecture Notes in Computer Science, 2014, , 310-326.	1.0	13
144	The 10,000 Facets of MDP Model Checking. Lecture Notes in Computer Science, 2019, , 420-451.	1.0	13

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145	Comparative Branching-Time Semantics for Markov Chains. Lecture Notes in Computer Science, 2003, , 492-507.	1.0	13
146	Weighted Lumpability on Markov Chains. Lecture Notes in Computer Science, 2012, , 322-339.	1.0	13
147	YMCA. Electronic Notes in Theoretical Computer Science, 2006, 162, 107-112.	0.9	12
148	A linear process-algebraic format with data for probabilistic automata. Theoretical Computer Science, 2012, 413, 36-57.	0.9	12
149	Zero-reachability in probabilistic multi-counter automata. , 2014, , .		12
150	Multi-cost Bounded Tradeoff Analysis in MDP. Journal of Automated Reasoning, 2020, 64, 1483-1522.	1.4	12
151	Are Parametric Markov Chains Monotonic?. Lecture Notes in Computer Science, 2019, , 479-496.	1.0	12
152	Scenario-Based Verification of Uncertain MDPs. Lecture Notes in Computer Science, 2020, 12078, 287-305.	1.0	12
153	The COMICS Tool â€“ Computing Minimal Counterexamples for DTMCs. Lecture Notes in Computer Science, 2012, , 349-353.	1.0	12
154	Partial order models for quantitative extensions of LOTOS. Computer Networks, 1998, 30, 925-950.	1.0	11
155	The Modest Modeling Tool and Its Implementation. Lecture Notes in Computer Science, 2003, , 116-133.	1.0	11
156	Verification and performance evaluation of aadl models. , 2009, , .		11
157	GSPNs Revisited: Simple Semantics and New Analysis Algorithms. , 2012, , .		11
158	The complexity of reachability in parametric Markov decision processes. Journal of Computer and System Sciences, 2021, 119, 183-210.	1.2	11
159	PrIC3: Property Directed Reachability for MDPs. Lecture Notes in Computer Science, 2020, , 512-538.	1.0	11
160	Termination Analysis of Probabilistic Programs with Martingales. , 2020, , 221-258.		11
161	Model checking of Scenario-Aware Dataflow with CADP. , 2012, , .		10
162	Fault trees on a diet: automated reduction by graph rewriting. Formal Aspects of Computing, 2017, 29, 651-703.	2.0	10

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163	Model Checking of Open Interval Markov Chains. Lecture Notes in Computer Science, 2015, , 30-42.	1.0	10
164	motor:The modest Tool Environment. Lecture Notes in Computer Science, 2007, , 500-504.	1.0	10
165	A Local Greibach Normal Form for Hyperedge Replacement Grammars. Lecture Notes in Computer Science, 2011, , 323-335.	1.0	10
166	Formal Methods for Aerospace Systems. , 2017, , 133-159.		10
167	A Calculus for Amortized Expected Runtimes. , 2023, 7, 1957-1986.		10
168	Performance Evaluation:= (Process Algebra + Model Checking) X Markov Chains. Lecture Notes in Computer Science, 2001, , 59-81.	1.0	9
169	Bisimulation and Simulation Relations for Markov Chains. Electronic Notes in Theoretical Computer Science, 2006, 162, 73-78.	0.9	9
170	Conditioning in Probabilistic Programming. Electronic Notes in Theoretical Computer Science, 2015, 319, 199-216.	0.9	9
171	Model-Checking Assisted Protocol Design for Ultra-reliable Low-Latency Wireless Networks. , 2016, , .		9
172	One Net Fits All. Lecture Notes in Computer Science, 2018, , 272-293.	1.0	9
173	Perinatal Lead Exposure Alters Calsyntenin-2 and Calsyntenin-3 Expression in the Hippocampus and Causes Learning Deficits in Mice Post-weaning. Biological Trace Element Research, 2021, 199, 1414-1424.	3.7	9
174	Model Checking Birth and Death. IFIP Advances in Information and Communication Technology, 2002, , 435-447.	0.0	9
175	Stochastic Games with Lexicographic Reachability-Safety Objectives. Lecture Notes in Computer Science, 2020, , 398-420.	1.0	9
176	Fault Trees on a Diet. Lecture Notes in Computer Science, 2015, , 3-18.	1.0	9
177	Model-Based Safety Analysis for Vehicle Guidance Systems. Lecture Notes in Computer Science, 2017, , 3-19.	1.0	9
178	Efficient Computation of Time-Bounded Reachability Probabilities in Uniform Continuous-Time Markov Decision Processes. Lecture Notes in Computer Science, 2004, , 61-76.	1.0	9
179	Compositional Modeling and Minimization of Time-Inhomogeneous Markov Chains. Lecture Notes in Computer Science, 2008, , 244-258.	1.0	9
180	Convex Optimization for Parameter Synthesis in MDPs. IEEE Transactions on Automatic Control, 2022, 67, 6333-6348.	6.0	9

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181	Weighted programming: a programming paradigm for specifying mathematical models. , 2022, 6, 1-30.		9
182	Time-Abstracting Bisimulation for Probabilistic Timed Automata. , 2008, , .		8
183	Probably safe or live. , 2014, , .		8
184	Extraction and isolation of ganoderic acid Î£ from Ganoderma lucidum. Tetrahedron Letters, 2016, 57, 5368-5371.	1.4	8
185	Confluence reduction for Markov automata. Theoretical Computer Science, 2016, 655, 193-219.	0.9	8
186	Strategy Synthesis for POMDPs in Robot Planning via Game-Based Abstractions. IEEE Transactions on Automatic Control, 2021, 66, 1040-1054.	6.0	8
187	Inductive Synthesis for Probabilistic Programs Reaches New Horizons. Lecture Notes in Computer Science, 2021, , 191-209.	1.0	8
188	Finding Provably Optimal Markov Chains. Lecture Notes in Computer Science, 2021, , 173-190.	1.0	8
189	The Surprising Robustness of (Closed) Timed Automata against Clock-Drift. International Federation for Information Processing, 2008, , 537-553.	0.0	8
190	Compositional Abstraction Techniques for Probabilistic Automata. Lecture Notes in Computer Science, 2012, , 325-341.	1.0	8
191	Parameter-Independent Strategies for pMDPs via POMDPs. Lecture Notes in Computer Science, 2018, , 53-70.	1.0	8
192	DFT modeling approach for operational risk assessment of railway infrastructure. International Journal on Software Tools for Technology Transfer, 2022, 24, 331-350.	2.1	8
193	Probabilistic Program Verification via Inductive Synthesis of Inductive Invariants. Lecture Notes in Computer Science, 2023, , 410-429.	1.0	8
194	Simulation-Based CTMC Model Checking: An Empirical Evaluation. , 2009, , .		7
195	Codesign of dependable systems: A component-based modeling language. , 2009, , .		7
196	Layered reasoning for randomized distributed algorithms. Formal Aspects of Computing, 2012, 24, 477-496.	2.0	7
197	A Statistical Approach for Timed Reachability in AADL Models. , 2015, , .		7
198	Automated Fine Tuning of Probabilistic Self-Stabilizing Algorithms. , 2017, , .		7

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199	PAYNT: A Tool for Inductive Synthesis of Probabilistic Programs. Lecture Notes in Computer Science, 2021, , 856-869.	1.0	7
200	LTL Model Checking of Time-Inhomogeneous Markov Chains. Lecture Notes in Computer Science, 2009, , 104-119.	1.0	7
201	Performance analysis and true concurrency semantics. Amast Series in Computing, 1995, , 309-337.	0.0	7
202	Observing Continuous-Time MDPs by 1-Clock Timed Automata. Lecture Notes in Computer Science, 2011, , 2-25.	1.0	7
203	Time-bounded reachability in tree-structured QBDs by abstraction. Performance Evaluation, 2011, 68, 105-125.	1.3	6
204	Reachability probabilities in Markovian Timed Automata. , 2011, , .		6
205	Exponentially timed SADF. , 2014, , .		6
206	IC3 software model checking. International Journal on Software Tools for Technology Transfer, 2020, 22, 135-161.	2.1	6
207	Multi-objective Parameter Synthesis in Probabilistic Hybrid Systems. Lecture Notes in Computer Science, 2015, , 93-107.	1.0	6
208	Inferring Covariances for Probabilistic Programs. Lecture Notes in Computer Science, 2016, , 191-206.	1.0	6
209	Smyle: A Tool for Synthesizing Distributed Models from Scenarios by Learning. Lecture Notes in Computer Science, 2008, , 162-166.	1.0	6
210	Gradient-Descent for Randomized Controllers Under Partial Observability. Lecture Notes in Computer Science, 2022, , 127-150.	1.0	6
211	Does aÂProgram Yield theÂRight Distribution?. Lecture Notes in Computer Science, 2022, , 79-101.	1.0	6
212	Towards a Logic for Performance and Mobility. Electronic Notes in Theoretical Computer Science, 2006, 153, 161-175.	0.9	5
213	Operational Versus Weakest Precondition Semantics for the Probabilistic Guarded Command Language. , 2012, , .		5
214	Model-Based Energy Optimization of Automotive Control Systems. , 2013, , .		5
215	Fine-Tuning the Odds in Bayesian Networks. Lecture Notes in Computer Science, 2021, , 268-283.	1.0	5
216	Safety and Liveness in Concurrent Pointer Programs. Lecture Notes in Computer Science, 2006, , 280-312.	1.0	5

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217	Causal behaviours and nets. Lecture Notes in Computer Science, 1995, , 258-277.	1.0	5
218	A DFT Modeling Approach for Infrastructure Reliability Analysis of Railway Station Areas. Lecture Notes in Computer Science, 2019, , 40-58.	1.0	5
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